

02/02

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/023,896

DATE: 01/15/2002  
TIME: 19:05:23

Input Set : A:\PA004P1seqList.txt  
Output Set: N:\CRF3\01152002\J023896.raw

1 <110> APPLICANT: Victor Roschke  
 3 <120> TITLE OF INVENTION: 29 Human Cancer Associated Proteins  
 5 <130> FILE REFERENCE: PA004P1  
 CQW 7 <140> CURRENT APPLICATION NUMBER: US/10/023,896  
 CQW 7 <141> CURRENT FILING DATE: 2001-12-21  
 7 <150> PRIOR APPLICATION NUMBER: unassigned  
 8 <151> PRIOR FILING DATE: 2001-12-21  
 10 <150> PRIOR APPLICATION NUMBER: PCT/US00/23794  
 11 <151> PRIOR FILING DATE: 2000-08-30  
 13 <150> PRIOR APPLICATION NUMBER: 60/152,296  
 14 <151> PRIOR FILING DATE: 1999-09-03  
 16 <150> PRIOR APPLICATION NUMBER: 60/158,003  
 17 <151> PRIOR FILING DATE: 1999-10-06  
 19 <160> NUMBER OF SEQ ID NOS: 138  
 21 <170> SOFTWARE: PatentIn Ver. 2.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 733  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Homo sapiens  
 28 <400> SEQUENCE: 1  
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 30 aattcgggg tgcaccgtca gttttcctct tccccccaaa acccaaggac accctcatga 120  
 31 tctcccgac tcctgagggtc acatgcgtgg tggtgacgt aagccacgaa gaccctgagg 180  
 32 tcaagttcaa ctggtaacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240  
 33 aggagcagta caacagcacy taccgtgtgg tcagcgtcct caccgtccctg caccaggact 300  
 34 ggctaatgg caaggagttac aagtgcagg tctccaaacaa agccctccca acccccattcg 360  
 35 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggtgtac accctgcccc 420  
 36 catcccgaaa tgagctgacc aagaaccagg tcagcctgac ctgcctggc aaaggcttct 480  
 37 atccaaagcgta catcgcgtg gagtgggaga gcaatggca gccggagaaac aactacaaga 540  
 38 ccacgcctcc cgtgctggac tccgacggct ccttcttcctt ctacagcaag ctcaccgtgg 600  
 39 acaagagcag gtggcagcag gggAACGTCT tctcatgctc cgttatgtcat gaggctctgc 660  
 40 acaaccacta cacgcagaag agcctctccc tgtctccggg taaaatgagtg cgacggccgc 720  
 41 gactcttagag gat 733  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 5  
 45 <212> TYPE: PRT  
 46 <213> ORGANISM: Homo sapiens  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: Site  
 50 <222> LOCATION: (3)  
 51 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids  
 53 <400> SEQUENCE: 2  
 W 54 Trp Ser Xaa Trp Ser  
 55 1 5  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 86  
 59 <212> TYPE: DNA

ENTERED

P.S

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/023, 896

DATE: 01/15/2002

TIME: 19:05:23

Input Set : A:\PA004\P1seqList.txt

Output Set: N:\CRF3\01152002\J023896.raw

60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:  
 63 <221> NAME/KEY: Primer\_Bind  
 64 <223> OTHER INFORMATION: Synthetic sequence with 4 tandem copies of the GAS binding site  
 65 found in the IRF1 promoter (Rothman et al., Immunity 1:457-468  
 66 (1994)), 18 nucleotides complementary to the SV40 early promoter,  
 67 and a Xho I restriction site.  
 69 <400> SEQUENCE: 3  
 70 ggcgcctcgag atttccccga aatcttagatt tcccccggaaat gattttcccg aaatgatttc 60  
 71 cccggaaatat ctgccatctc aattag 86  
 73 <210> SEQ ID NO: 4  
 74 <211> LENGTH: 27  
 75 <212> TYPE: DNA  
 76 <213> ORGANISM: Artificial Sequence  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: Primer\_Bind  
 80 <223> OTHER INFORMATION: Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.  
 81 <400> SEQUENCE: 4  
 84 gcgccaaagct ttttgccaaag ccttaggc 27  
 86 <210> SEQ ID NO: 5  
 87 <211> LENGTH: 271  
 88 <212> TYPE: DNA  
 89 <213> ORGANISM: Artificial Sequence  
 91 <220> FEATURE:  
 92 <221> NAME/KEY: Protein\_Bind  
 93 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).  
 97 <400> SEQUENCE: 5  
 98 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tcccccggaaat gattttcccg 60  
 99 aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120  
 100 gcccctaact ccgcccagg ttccgccccat ggctgactaa ttttttttat 180  
 101 ttatgcagag gccgaggccg ctcggccctc tgagctattc cagaagtagt gaggaggctt 240  
 102 ttttggaggc cttaggtttt gcaaaaagct t 271  
 104 <210> SEQ ID NO: 6  
 105 <211> LENGTH: 32  
 106 <212> TYPE: DNA  
 107 <213> ORGANISM: Artificial Sequence  
 109 <220> FEATURE:  
 110 <221> NAME/KEY: Primer\_Bind  
 111 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1 promoter  
 112 sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a  
 113 Xho I restriction site.  
 115 <400> SEQUENCE: 6  
 116 gcgctcgagg gatgacagacg atagaacccc gg 32  
 118 <210> SEQ ID NO: 7  
 119 <211> LENGTH: 31  
 120 <212> TYPE: DNA

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121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <221> NAME/KEY: Primer_Bind
125 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1
promoter
126      sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a
127      Hind III restriction site.
129 <400> SEQUENCE: 7
130 gcgaaagcttc gcgcactcccc ggatccgcct c          31
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 12
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 8
138 ggggactttc cc          12
140 <210> SEQ ID NO: 9
141 <211> LENGTH: 73
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <221> NAME/KEY: Primer_Bind
147 <223> OTHER INFORMATION: Synthetic primer with 4 tandem copies of the NF-KB binding
site
148      (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the
149      SV40 early promoter sequence, and a XhoI restriction site.
151 <400> SEQUENCE: 9
152 gcggccctcga ggggactttc ccggggactt tccggggact ttccggact ttccatcctg      60
153 ccatctcaat tag          73
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 256
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <221> NAME/KEY: Protein_Bind
162 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes
NF-KB
163      binding sites.
165 <400> SEQUENCE: 10
166 ctgcaggggga ctccccggg gactttccgg ggactttccg ggactttcca tctgccatct      60
167 caatttagtca gcaaccatag tcccgccct aactccgccc atcccgcccc taactccgccc 120
168 cagttccgcc cattctccgc cccatggctg actaattttt ttatattatg cagaggccga 180
169 ggccgcctcg gcctctgagc tattccagaa gtatgtgagga ggctttttg gaggcctagg 240
170 ctttgcaaa aagctt          256
172 <210> SEQ ID NO: 11
173 <211> LENGTH: 1388
174 <212> TYPE: DNA
175 <213> ORGANISM: Homo sapiens
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (1388)..(1388)
180 <223> OTHER INFORMATION: n equals a,t,g, or c
182 <400> SEQUENCE: 11

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183	cgggtcgacc cacgcgtccg	gtccctagga gataagagta	tcttgcacag cagggtcagg	60
184	tttcccagca gtcaggcaa	gagtccgatg ttttgtccat	ctgatcctga tgtctggaga	120
185	gatagccatg tgtgagcctg	aatttggcaa tgacaaggcc	agggagccg gcgtgggtgg	180
186	caggtggcga gtgtcctggt	acgaacggtt tgtcagcca	tgtctggcg aactgctggg	240
187	ctctgctc tcacatctca	tcgggtgcct gtcggtcatt	gagaatggga cggacactgg	300
188	gctgtcgag ccggccctgg	cccacgggct ggcttgggg	ctcgtgattt ccacgctggg	360
189	gaatatcagt ggtggacact	tcaaccctgc ggtgtccctg	gcagccatgc tgatcgagg	420
190	cctcaacctg gtgtatgctcc	tcccgtactg ggttcacag	ctgctcgaaa ggtatgctgg	480
191	ggctgcctg gccaaggcgg	tgagtccctga ggagagggtt	tggaatgcat ctggggcggc	540
192	ctttgtgaca gtccaggagc	aggggcaggt ggcaggggcg	ttgggtggcag agatcatcct	600
193	gacgacgctg ctggccctgg	ctgtatgcat ggggtccatc	aatgagaaga caaaggccc	660
194	tctggccccc ttctccatcg	gctttgcctg caccgtggat	atcctggctg gggccctgt	720
195	gtctggaggc tgcatgaatc	ccgcccgtgc ttttggacct	gcccgtgggg ccaaccactg	780
196	gaacttccac tggatctact	ggctggggcc actcctggct	ggcctgcctt ttggactgct	840
197	cattaggtgc ttcatggag	atggaaagac ccgcctcata	ctgaaggctc agtgaagcag	900
198	agctcgtggg attcctgctg	ctccaggtgt cctcagctca	cctgtccctg actgaggaca	960
199	ggggagttcc tgcatttcct	gccagggcag aggcccagag	gagcggacccc ctgttccac	1020
200	tgcttggggc tgcttctca	gataactgta ctgctgagga	ggctcttagt tcttggatt	1080
201	ccttgtgt catcagagac	cccagctgg ggaacacgct	gcccgcactg cccagagagc	1140
202	agtgc当地 acacccacg	agcgtgtttc ttgagaggaa	tgtccccggag ttggacaagg	1200
203	aggctgtttc tgcacatcag	ctcatttccc gcacccatt	tcttkcttga ttgctttgtt	1260
204	gggggcctgg ccacttcctt	gcttctcaag ctgacaattc	tgcacttgc aataaatagt	1320
205	ccagtgtttc cttccaaaaa	aaaaaaaaa aaaaaaaaaa	aaaaaaaaa aaaaaaaaaa	1380
206	aaaaaaaaa			1388

w ✓  
 208 <210> SEQ ID NO: 12  
 209 <211> LENGTH: 1478  
 210 <212> TYPE: DNA  
 211 <213> ORGANISM: Homo sapiens  
 213 <400> SEQUENCE: 12

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215	tctcgctgac tgcttcacct	cttacaagtc tgcccatccc	ggaagtaatg atgacaaaaat	120
216	actccaaacct tttcttggaa	agtcataaaca tctcaactgac	tgaacatccc agtgtgccag	180
217	tggaaaaaaaaa tatcacttta	gaacgaccct ctgtgtaga	actcacatgt cagttcacaa	240
218	cttctgggaa tgtgaattca	gtaaatgtga cttggaaaaa	agggatgaa caacttaaga	300
219	attaccatgt cagtgcacca	gaaggcatcc tgtataccca	gtacaagttt tccatcat	360
220	atagcgaaca actggaaagc	tatttctgtt tctttgaaga	ggaaaaggaa cgaaggggca	420
221	catttaattt cggagtcct	gaagttcaga gaaaaacaa	accattgatc acttatgtgg	480
222	gggattccgt tgtcttggtg	tgtaaatgcc gacactgtgc	tcctttaaat tggacctgg	540
223	acagtgtaa taggagtgt	caggttcctc ttgatgtca	catgaatgaa aagtatgcga	600
224	tcaatggAAC aaacgcgaat	gaaacaaggc ttaagataat	gcagtttca gaagacgata	660
225	aaggatctt ttggtgccat	gcaatgttcc agtggcga	gagccaagaa agtgtgaac	720
226	tggttgtat aagtatttg	gtccccctca aaccatttct	tggaatagtt gttgaagtta	780
227	ttcttttagt ggcttattt	ctgtttgtt aaatgcacac	ccaaaagaaa aagatgcaca	840
228	tggatgtatgg gaaagaattt	gaacaagttt aacagtttga	atcagacgat agcaacggca	900
229	tagaaaataa tgccccagg	cacagaaaaa atgaagctat	gagccagtgaa aagcaaaaaca	960
230	tcgtgtcaag agtaatggga	agatgtatag tttctacttc	agctttgttt atgtttctgg	1020
231	tgaagaacat ctgagtttt	attttacaa ggataaaaag	tttatgtat atgctcagca	1080
232	gtagtttgc aataatacct	gctatctcag atccaaagat	atattttct tctgtgatta	1140
233	ttttacatta aagcaagta	aatcatatta aatatgttct	atgagctata acccaggata	1200

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234	actaatttca	tcttggtcat	caaggatgc	acagaagaga	taccagcaaa	accagttagt	1260
235	agtacatgaa	ctaatgtcat	tcaagacctg	cgtataacca	aagaattcat	taaagagaaa	1320
236	actttttgc	catttcctt	ggttttttt	ctaattatgc	ttactatgtg	tagaaatatt	1380
237	tgtataatt	ttcatgtaat	ggtcacccctc	tgtcatattt	gataaaaaca	tctttattaa	1440
238	gaaatgaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1478
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241	<211>	LENGTH:	1684				
242	<212>	TYPE:	DNA				
243	<213>	ORGANISM:	Homo sapiens				
245	<220>	FEATURE:					
246	<221>	NAME/KEY:	misc_feature				
247	<222>	LOCATION:	(1)..(1)				
248	<223>	OTHER INFORMATION:	n equals a,t,g, or c				
250	<220>	FEATURE:					
251	<221>	NAME/KEY:	misc_feature				
252	<222>	LOCATION:	(18)..(18)				
253	<223>	OTHER INFORMATION:	n equals a,t,g, or c				
255	<220>	FEATURE:					
256	<221>	NAME/KEY:	misc_feature				
257	<222>	LOCATION:	(63)..(63)				
258	<223>	OTHER INFORMATION:	n equals a,t,g, or c				
260	<400>	SEQUENCE:	13				
261	ncggcgcgac	ccccccantt	ttaatgacgc	ctgcccgtccg	gtccggattt	cccggtcgaa	60
262	ccncgcgtcc	ggcgggaccg	gtttgcggga	agattctgtg	gacaatcacc	atggaaagca	120
263	aaggaggctt	catccttctg	ctcatcctcg	ctgtgtctcg	ccgttcaggt	catagcctga	180
264	catgtacgc	ctgttattgac	cgtgaaacct	gcaacaagac	cactgtttgt	tcaagttaatc	240
265	atgacgcgtg	tctgtggtc	aaagctgatc	caaaaactttt	ttaccgcag	tgttggaaagt	300
266	ttgatgactg	cagctacctc	tctatctcca	aagccctggg	gctgaagaag	ctccagtgaca	360
267	gctgtgccca	gaaggacctg	tgcaacggga	gtgccagggt	ctctggatg	acagcgttga	420
268	tgcgtctccc	cttgcggcg	gcagccttga	cgcttgcgt	ctaaataaac	acccggaggc	480
269	cttctctaa	actttccgtg	tctccgtata	ctccattttt	ccttggctgc	tgcattggcca	540
270	cagctttatt	tcacctgtcc	cgttgggcaa	gactaacact	agtttgggca	acttggtgac	600
271	aagagaggct	ctgagagacg	ttgaagggtca	gtccotgtgg	cagcgaagac	ccgtcgagg	660
272	gacatggtat	aaaagggtgc	agcacgtgcg	atctgagctc	ggccgcacgt	ttcttcctcg	720
273	gttttcaca	agagcagccct	cgccaggacac	gcttsgtac	ctcagatct	ctgcaggggcc	780
274	cggtcatggt	tattttccct	ctgatggctt	ggaggtgatt	tttaaataact	ctgatctgg	840
275	ggggagggcg	gtggacttgg	gacagggggt	tctttcgac	agcctctccc	aggaatgct	900
276	ttcatcctct	ccctttatgg	cacccgcgct	gccaaggcagg	cccgaccacg	ctcccacatg	960
277	cgggctgttg	gggagcggcc	gggagattct	cagtgtgg	tgatcgca	gacctttgt	1020
278	gtctcaactc	gcgggtgcct	ggcagggaag	gaggggagct	ttccacacgg	cagggccttg	1080
279	aactcccagg	tctgtcttcc	gaaaagttagc	agtggctaaa	atcagatctt	tcctctatca	1140
280	ctcggttgt	aatgggctt	gtttgtctgc	agtagagaaa	cttagcatct	aataatgtat	1200
281	tgtaaaattt	atcccttcaa	cttttgcata	agattgggtt	ggtatctgg	cttgcaca	1260
282	cgcagttaaa	gtctkaacgt	tgggacactc	tgtttaaaat	aactcgtagt	ggggcacctg	1320
283	ggtggctcag	tgggttaaag	cctctaccc	gggatcatga	cctgagggtga	aggcagaggc	1380
284	ctagcccact	gagccaccca	ggccccccta	aaagtgttac	accttttgag	gaagagttt	1440
285	gcctttttct	tgggtgtt	cctgaataat	ttgcaagatc	cagcagtcgg	aaggacactt	1500
286	gttttctwat	catctcggt	gtctctaaca	gcacagctt	gctttttgc	gatgaagggt	1560
287	ggacttcagg	attaacattt	tttttca	ccttgctcat	gtaatctatg	taacaggctg	1620

The use of n and/or Xaa has been detected in the Sequence Listing.  
Please review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/023,896

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Input Set: A:\PA004\P1seqList.txt  
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L: 7 M:270 C: Current Application Number differs, Replaced Current Application No  
L: 7 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:1111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:1133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42  
L:1175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44  
L:1247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:1360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:1361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:1431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52  
L:1432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52  
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53  
L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:2624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88  
L:2884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100  
L:3454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128  
L:3457 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128  
L:3460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128